MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 6
Quarter: Post-March
Accelerated

Standards **Key Ideas, Major Understandings, Performance Indicators, Competencies**	**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring Guides**
Unit 8 – Number Systems			
7N1 Distinguish between the various subsets of numbers using a Venn Diagram (counting/natural numbers, whole numbers, integers, rational numbers, and irrational numbers). **7N2** Recognize the difference between rational and irrational numbers. **7N3** Place rational and irrational numbers (approximations) on a number line and justify the placement of the numbers. **7N4** Develop the laws of exponents for multiplication and division.	1		
7N5 Write numbers in scientific notation. **7N6** Translate numbers from scientific notation to standard form. **7M10** Identify the relationships between relative error and magnitude when dealing with large numbers.	2		
7N7 Compare numbers written in scientific notation.	1		
Quiz	1		
Total Days	**7**		

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Unit 9 – Number Theory			
7N10 Determine the prime factorization of a given number and write in exponential form. **7N8** Find the common factors and GCF of two or more numbers. **7N9** Determine multiples and LCM of two or more numbers. **7N10** Determine the prime factorization of a given number and write in exponential form. **7N8** Find the common factors and GCF of two ore more numbers. **7N9** Determine multiples and LCM of two or more numbers.	1		
Quiz	1		
Total Days	**5**		
Unit 10 - Operations			
7N11 Simplify expressions using Order of Operations (expressions may include absolute value and/or integral exponents greater than zero).	1		
7N12 Add, subtract, multiply, and divide integers. **7N13**	5		

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Add and subtract two integers with and without the use of a number line.			
7N14 Develop a conceptual understanding of negative and zero exponents with a base of ten and relate to fractions and decimals (i.e.: 10^{-2}=.01=1/100). **7N15** Recognize and state the value of the square root of a perfect square (up to 225). **7N16** Determine the square root of non-perfect squares using a calculator. **7N17** Classify irrational numbers as non-repeating/non-terminating decimals. **7N18** Identify the two consecutive whole numbers between which the square-root of a non-perfect square whole number less than 225 lies (with and without use of a number line). **7N19** Justify the reasonableness of answers using estimation.	1		
Review and test.	2		
Total Days	**13**		
Unit 11 – Algebra Part 2			
7A1 Translate two-step verbal expressions into algebraic expressions. **6A3** Translate two-step verbal sentences into algebraic equations.	1		

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7A5 Solve one-step inequalities (positive coefficients only).	2		
7G10 Graph the solution set of an inequality (positive coefficients only).	2		
6A4 Solve and explain two-step equations involving whole numbers using inverse operations.	4		
Review and test.	2		
Total Days	**9**		
Unit 12 – Geometry Part 2			
7G1 Calculate the radius or diameter given the circumference or area of a circle. **7G2** Calculate the volume of prisms and cylinders using a given formula and calculator. **7G3** Identify the two-dimensional shapes that make up the faces and bases of three-dimensional shapes (prisms, cylinders, cones, and pyramids).	1		
6G10 Identify and plot points in all 4 quadrants. **6G11** Calculate the area of basic polygons drawn on a coordinate plane (rectangles and shapes composed of rectangles having sides with interior lengths.	2		

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7G4 Determine the surface area of prisms and cylinders using a calculator and a variety of methods.			
7M11 Estimate surface area.	2		
7G7 Find a missing angle when given angles of a quadrilateral.	1		
Review and test.	1		
Total Days	**10**		
Unit 13 – Measurement			
7M2 Convert capacities and volumes within a given system. **7M3** Identify customary and metric units of mass. **7M4** Convert mass within a given system. **7M9** Determine the tool and technique to measure with an appropriate level of precision: mass. **7M12** Determine personal references for customary metric measurements. **7M13** Justify reasonableness of the mass of an object.	1		
Quiz	1		

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Total Days	**5**		